Bruhath Bangalore Mahanagara Palike Dasarahalli Zone

Name of Work: Modified Estimated for Asphalting to Main & Cross roads SMR Layout Thammish Garden, Venkateshwara Layout, in ward No.12, of Shettyhalli Sub Division

Est.Cost Rs 49.90 Lakhs

Sl. No.	Description of Items	Unit	No.	L.	B.	D	Qty.	Rate	Amount
1	2	3	4	5	6	7	8	9	10.00
1	KSRRB 300-2 : Earthwork excavation by manual means in hard soil involving an average horizontal throw upto 2 metres and an average lift upto 0.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH /Chapter 3 (Page No.152, Item No. 19.2)								
		Cum	1	50.00	4.40	0.30	66.00		
			1	44.00	5.00	0.30	66.00		
			1	45.00	5.00	0.30	67.50		
			1	50.00	6.00	0.30	90.00		
			1	62.00	5.00	0.30	93.00		
			1	73.00	4.50	0.30	98.55		
			1	42.00	5.00	0.30	63.00		
			1	180.00	7.00	0.30	378.00		
			1	20.00	6.50	0.30	39.00		
							961.05	90.72	**87186.00**
	Basic Rate	84.00							
	Area Weightage 8%	6.72							
	Total	90.72							
2	KSRRB 400.6.1 : Construction of granular sub-baseby providing close graded material, mixing in a mechanical mix plant at OMC , carriage of mixed Material to work site, spreading in uniform layers with mortor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specification. A.Plant Mix Method. Close graded granual sub-base material as per 400-1 For Grading - I Material. MORTH Chapter 4 (Page No.167, Item No. 20.4.1)								
		Cum	1	50.00	4.40	0.15	33.00		
			1	44.00	5.00	0.15	33.00		
			1	45.00	5.00	0.15	33.75		
			1	50.00	6.00	0.15	45.00		
			1	62.00	5.00	0.15	46.50		
			1	73.00	4.50	0.15	49.28		
			1	42.00	5.00	0.15	31.50		
			1	180.00	7.00	0.15	189.00		
			1	20.00	6.50	0.15	19.50		
							480.53	1060.56	**509626.00**
	Basic Rate	982.00							
	Area Weightage 8%	78.56							
	Total	1,060.56							
3	KSRRB M400-17: Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam Specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per Specifications. MORTH Specification No. 406 Page No. 170/ Item No. 20.18/ PWD SR 2013-14								
		Cum	1	50.00	4.40	0.20	44.00		
			1	44.00	5.00	0.20	44.00		
			1	45.00	5.00	0.20	45.00		
			1	50.00	6.00	0.20	60.00		
			1	62.00	5.00	0.20	62.00		
			1	73.00	4.50	0.20	65.70		

Sl. No.	Description of Items	Unit	No.	L.	B.	D	Qty.	Rate	Amount
			1	42.00	5.00	0.20	42.00		
			1	180.00	7.00	0.20	252.00		
			1	20.00	6.50	0.20	26.00		
							640.70	1121.04	**718250.00**
	Basic Rate	1,038.00							
	Area Weightage 8%	83.04							
	Total	1,121.04							
4	KSRRB 500-6 : Providing and applying primer coat with bitumen emulsion on prepared surface of granular Base including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm using meachanical means complete as per specifications. MORTH Specification No.502 (Page No.175, Item No. 21.6)								
		Sqm	1	50.00	4.40		220.00		
			1	44.00	5.00		220.00		
			1	45.00	5.00		225.00		
			1	50.00	6.00		300.00		
			1	62.00	5.00		310.00		
			1	73.00	4.50		328.50		
			1	42.00	5.00		210.00		
			1	180.00	7.00		1260.00		
			1	20.00	6.50		130.00		
							3203.50	44.28	**141851.00**
	Basic Rate	41.00							
	Area Weightage 8%	3.28							
	Total	44.28							
5	KSRRB 500-1: Cleaning the existing Black topped surface including removing of binding materials and other foreign matter with wire brushes and small picks, sweeping with brooms or soft brushes and finally dusting with old gunny bags and / or compressed air, to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH / Chapter 5 (Page No.175, Item No. 21.1)								
		Sqm	1	325.00	5.20		1690.00		
			1	393.00	7.00		2751.00		
			1	207.00	5.10		1055.70		
							5496.70	2.59	**14247.00**
	Basic Rate	2.40							
	Area Weightage 8%	0.19							
	Total	2.59							
6	KSRRB 500-7 : Providing and applying tack coat on the prepared black topped surfaces at 2.5 kg per 10 sqm heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH / Chapter 5 (Page No.176, Item No. 21.7)								
		Sqm	1	325.00	5.20		1690.00		
			1	393.00	7.00		2751.00		
			1	207.00	5.10		1055.70		
							5496.70	17.93	**98545.00**
	Basic Rate	16.60							
	Area Weightage 8%	1.33							
	Total	17.93							

Sl. No.	Description of Items	Unit	No.	L.	B.	D	Qty.	Rate	Amount
7	KSRRB 500-11 : Providing and laying bituminous macadam on prepared surface with cushed coarse aggregates as per design mix formula for base/binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant 40 tonne capacity, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, 50/75mm compacted thickness with 3.3% bitumen but excluding cost of primer / tack coat with lead upto 1 km including cost of all materials, labour, HOM of machineries complete as per specification. MORTH Chapter 5 with 60/70 grade bitumen (Page No.176, Item No. 21.11.2)								
		Cum	1	50.00	4.40	0.05	11.00		
			1	44.00	5.00	0.05	11.00		
			1	45.00	5.00	0.05	11.25		
			1	50.00	6.00	0.05	15.00		
			1	62.00	5.00	0.05	15.50		
			1	73.00	4.50	0.05	16.43		
			1	42.00	5.00	0.05	10.50		
			1	180.00	7.00	0.05	63.00		
			1	20.00	6.50	0.05	6.50		
							160.18	6733.80	**1078586.00**
	Basic Rate	6,235.00							
	Area Weightage 8%	498.80							
	Total	6,733.80							
8	KSRRB M500-18 : Providing and laying semi dense bituminous concrete with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 4.5 to 5% of mix and filler, transporting the hot mix to work site laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No.500.8 complete in all respects as per specifications .25-30mm compacted thickness with 5% bitumen 80/100 grade using 40-60 HMP (Grading II) (Page No.178, Item No. 21.20.3)								
		Cum	1	325.00	5.20	0.025	42.25		
			1	393.00	7.00	0.025	68.78		
			1	180.00	7.00	0.025	31.50		
			1	207.00	5.10	0.025	26.39		
							168.92	10436.00	**1762822.00**
	Basic Rate	9,662.96							
	Area Weightage 8%	773.04							
	Total	10,436.00							
9	KSRRB 400-1.3: Carriage of mixed materials 10 Kms, For items of Sl.no 1.c) rs. 5.20 per cum/km Page no 186/ PWD SR 2013-14								
	Qty.vide item No. (8)+(9)						**313.73**	56.16	**17619.00**
	Basic Rate	52.00							
	Area Weightage 8%	4.16							
		56.16							
10	Disposal of debris to the final place of disposal with all lead and lift and as direction by the engineer in charge of the work, lead 10 Km a)Basic rate for haulage of materials as per item No. 17.4/KSRRB : M100-4.1 ..... Rs. 2.00 Tonne/Km b)Average earth of work 1.28 Tonne/Km for Rs. 2.00/Km c)Add loading and unloading Item No. 17.1 KSRRB M 100-1 Rs. 62.20 (P.150, I.no.18.57/1, PWD SR 2013-14)								

Sl. No.	Description of Items	Unit	No.	L.	B.	D	Qty.	Rate	Amount
	Qty Vide Item No=1	Cum					961.05		
	Qty Limited to						914.00	72.71	66453.00
	Basic Rate (Rs.2.0 x 1.28 x 2 kms)	5.12							
	Loading and Unloading Charges	62.20							
		67.32							
	Area Weightage @ 8%	5.39							
	Total	72.71							
								Total	4495185.00
11	Add: KRIDL Service charges 11%								494470.00
12	Miscellaneous and other unforseen charges								345.00
								Total	4990000.00

CERTIFICATE

1 The work sport has been inspected and the work found to be necessary
2 This estimate is prepared as per the PWD S.R of 2013-14
3 The provisions made in estimate are adequate and essential
4 This area comes under BBMP limits

Ravi. N.K.
Asst. Engineer
Ward No-12

Asst.Executive Engineer
Shettyhalli Sub-Division
BBMP

Executive Engineer
Dasarahalli Zone
BBMP

CE/D2/TS/33/14-15
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